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MODERN MARVELS invent now CHALLENGE

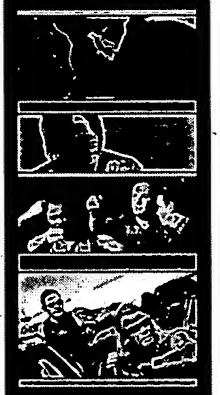
Press

Modern Marvels Invent Now® Challenge Begins Search for America's Next Great Invention
The History Channel® and National Inventors Hall of Fame® Foundation kick-off second year of national competition, answering the call of America's independent inventors

NEW YORK (September 28, 2006) – The History Channel® and Invent Now® Inc., a division of the National Inventors Hall of Fame® Foundation, announced today the kick-off of the second annual Modern Marvels Invent Now Challenge, a national competition seeking to answer the call of the nation's unrecognized independent inventors. The Challenge, which is named in part for Modern Marvels®, the long-running series on The History Channel that celebrates ingenuity, imagination and invention brought to life, has officially opened its call for submissions to everyday inventors across the country in search of the 2007 Modern Marvel of the Year.

This year's Challenge is building upon the successes of the 2005-2006 competition, which proved that America still has a strong hunger for invention with nearly 4,500 submissions from inventors ranging in age from eight to 80 and from all 50 states. After recognizing 100 Honorable Mention recipients, 25 Semi-Finalists and four Finalists, last year's inaugural Challenge ultimately named it's Grand Prize Winner, David R. Ward. Ward's invention—the Strawjet, a breakthrough process in creating building material from the renewable material straw—was the "Modern Marvel of the Year" and earned him a $25,000 grant to further develop the project.
"Last year's program proved that America is full of everyday inventors who are looking for a forum to have their ideas recognized," said Judy Klein-Frimer, Director of Consumer Promotion and Strategic Alliances for The History Channel. "Like so many of those profiled in our Modern Marvels series, the everyday tinkerers and dreamers are often the architects of real-life modern marvels that could fill a need in

A&E video



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Semi-Finalists Announced in March!

Judges deliberate on WHICH INVENTION will be the "2007 Modern Marvel of the Year."

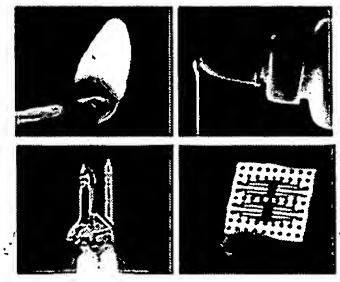
Thousands of independent inventors from coast to coast have submitted their innovative invention ideas for the chance to be selected as the "2007 Modern Marvel of the Year." Five of the lucky Semi-Finalists will receive cash prizes and a national spotlight on The History Channel®. The Grand Prize winner will receive national recognition and a $25,000 prize.

Right now our judging panel, including representatives from the United States Patent and Trademark Office, inductees from the National Inventors Hall of Fame®, and preeminent invention and technology experts, are hard at work reviewing the inventors' ideas. The judges will select the winners based on 1) the originality and uniqueness of the invention, 2) the ingenuity of the inventor and 3) the story of the invention and its relation to historical precedents.

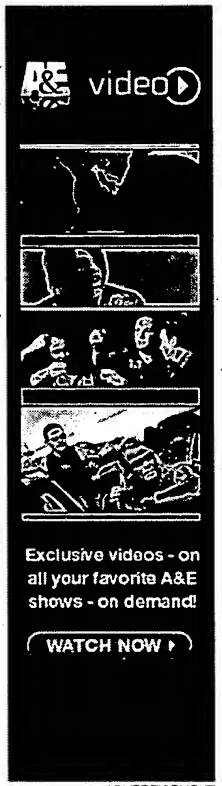
Who are the next generation of inventors? What are the new inventions that will change our world and the way we conduct our lives?

Find out in March 2007 – only here on History.com/invent!

The Modern Marvels Invent Now Challenge is an annual invention contest created by The History Channel and the National Inventors Hall of Fame. The Challenge celebrates mankind's ingenuity and is an extraordinary opportunity for independent inventors to influence the ever-changing face of invention.



Watch MODERN MARVELS WED @ 8pm/7c



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Honorable Mentions

Deployable Tube
Name: Mr. Randall F. Alder
Hometown:Fenton, MI

The Invention Idea
When not in use the deploy-able tube is stored compactly in a rolled/coiled up form like a tape measure. Unlike a tape measure, the flattened strip curves further than a C shape when unwound, wrapping completely around to form a tubular shape. This shape is either held in place due to the memory of the material, or with a zipper type apparatus along its length. Applications are endless.

Asceti Strength System
Name: Mr. Thomas Anagnosto
Hometown: Newark, DE

The Invention Idea
A strength-to-weight ratio, travel size, training system for advanced high intensity weight training. A simplex made of a pair of beams and traction tether combined with a training method that utilizes exclusively principles of fulcrum and lever (and reverse leverage) for a geometrically simplified training system that accommodates all major muscle groups at full power lifting intensity.

Twist-Lok Drill and Drive System
Name: Mr. Patrick Anderson
Hometown: Eddy Stone, PA

The Invention Idea
Twist-Lok is the fastest and most economical way to drill a hole and then install a fastener in virtually any material.

Star, Constellation, Galaxy, Nebula, and Planet Finder
Name: Mr. Salvatore Anello
Hometown: Pompton Plains, NJ

The Invention Idea
The invention allows the user to stand under a transparent canopy-type umbrella to learn the entire night sky within minutes. The umbrella is also coupled with a transparent circular drape that has the entire night sky mapped with glow-in-the-dark stars on it. The drape is connected to the umbrella and can spin freely to allow alignment with the night sky. The user can then simply read the drape to learn the night sky!

Delayed combustion controlled expansion engine
Name: Mr. Jorge A. Artola
Hometown: Stocton, CA

Invention Idea
The Delayed Combustion Controlled Expansion Engine does not use a crankshaft or connecting rods and, therefore, the displacement of the piston is not subjected to the circular harmonic motion sine wave of the crankshaft but moves in the most efficient parameter dictated by the type of stroke, slope, timing, etc. required by the engine.

ToddleBar ™
Name: Ms. Julie L. Austin
Hometown: Southfield, MI

Invention Idea:
The Toddle Bar (TM) is a stroller attachment that helps toddlers learn to walk and lets little kids assist pushing the stroller. It saves parents from sore backs due to bending over to hold a tot's hand. Toddlers use push toys, but can lose control. Parents control the speed and direction of the stroller. No existing products utilize the stroller as a walking aid.

Pulse Activated Cell System
Name: Mr. Mark Banister
Hometown: Tucson, AZ

Invention Idea:
The PAC System is a true Digital Pump/Fluidic Processor that can be scaled from micro pumps to marine propulsion. Think of bubble wrap rolled in a tube with each of the bubbles able to expand and contract, sending a pulse of the expansion down the tube creates fluidic movement. One prototype we have made uses cells made of polymers that actuate from exposure to light waves.

Vote hub
Name: Dr. Tom J. Bensky
Hometown: San Luis Obispo, CA

The Invention Idea
"The Vote hub brings audience polling technology, popularized by television game shows, to the classroom. It allows a teacher to poll a class full of students and see an instant bar-graph report on what the students are thinking.

Modus Verticraft
Name: Mr. Franklin E. Black
Hometown: Batavia, OH

The Invention Idea
Modus is an airplane (business jet) that can simply turn on and off vertical lift by extending more efficient fan blades out of storage of the wing/hub. , Improving efficiency in lift, speed, maintenance and safety.

Accerated wound healing via nanotechnology
Name: Mr. Roy A. Bolduc
Hometown: Amesbury, MA

The Invention Idea
The device consists of a thin transparent wound dressing containing Quantum dots distributed and immobilized throughout its polymer matrix. The Quantum dots within the matrix will absorb any broadband light source and emit at specific favorable wavelengths known to accelerate and improve wound healing.

Wind Turbine Enhancement Apparatus
Name: Mr. Morris Boughton
Hometown: Nevada City, CA

The Invention Idea
An aerodynamic shape, when installed at the base of a tower, which supports a wind turbine generator, directs higher wind speeds into a Turbine Rotor Blades, resulting in a considerable increase in Electrical Energy Production. The fundamental physics of a wind turbine tells us, if the wind speed increases 20%, the electrical energy produced increases 73%.

Gimme a Lift
Name: Mr. Donald A. Brown
Hometown: Norton, OH
The Invention Idea
Gimme a Lift weighs only 1.5 lbs and can lift and lower a 350 individual using the 'mechanical advantage of leverage'. The Lift has a 53 inch reinforced inch aluminum bar with a top Palm grip for the nurse or caregiver to use. The middle has three hand grips for the patient/individual. The bottom has a unique Anchor Pad that is anchored to the floor by the weight of one's foot.

System Modulock
Name: Mr. William R. Burns
Hometown: Hazelwood, MO

Invention Idea
This invention is a set of plastic containers (i.e.-milk jugs, oil or antifreeze containers for example) that are designed to be used as interlocking building blocks when the original contents are expended. These would be molded of high-strength polyethylene plastic, making a structurally sound module that could be used as a viable way to construct all manner of buildings and dwellings in third-world nations or as creative toys for children.

Boolean algebra translator
Name: Mr. Eurica Californniaa

Hometown: Malibu, CA

Invention Idea
Boolean algebra is the binary language of computing, but basic algebra is the basic language of mathematics. This is a novel of translating Boolean algebra into basic algebra.

Created by World Archipelago

Coulomb force Oscillator (CFO)
Name: Mr. Larry D. Canada
Hometown: Conyers, GA

The Invention Idea
In a Coulomb force process an external charge is used to alternately remove and then return free electrons to a body via a single conductor effecting recombination photon emission, allowing for new designs in devices such as thin-sheet lighting, display screens, miniature x-ray emitters, free electron lasers, high-density electron emitters and more.

Say-So ™
Name: Mr. Konstantin A. Caploon
Hometown: Montclair, NJ

The Invention Idea
The invention idea is a binder clip (or any type of paper clip) that has voice/sound recording and playback capability. Thus the clip may be used to bind a document to a folder, for example, while simultaneously carrying your voice message relating to these items.

Clear Dental Waterline Treatment System
Name: Mr. James W. Chandler
Hometown: Ashland, OH

The Invention Idea
The filtration system is designed to remove bacteria and other microorganisms from dental waterlines. It also removes heavy metals like arsenic and lead while also reducing the scaling potential of calcium and magnesium that contribute to the formation of bio-films and the plugging of tiny ports in the dental delivery unit. The system helps protect patients and dental staff from infection.

CERI Hinged Handcuffs
Name: Mr. Tom Chesters
Hometown: Hanover Park,IL

The Invention Idea
CERI Hinged Handcuffs are handcuffs with a controllably extendible restraint interconnection. A flexible belt, cord or cable tether is attached to a controllably-ratcheted, winding-rewinding spool. One restraint is connected to the tether, the other to the spool housing. When desired, the tether can be locked so that it can only be ratcheted back onto the spool.

Clip-Away Feeding Tray
Name: Mrs. Mente P. Connery
Hometown: Orlando, FL

Invention Idea
A plastic baby feeding tray that attaches via a clip or pivots out from the existing high chair tray. Invented to keep feeding items out of baby's reach during parent feeding, the Tray holds a jar, bottle and spoon and clips opposite baby in the highchair to hold feeding items for the parent.

3D Display Systems
Name: Mr. Allen F. Crabtree
Hometown: Fairfax, CA

The Invention Idea
True, topographical, solid-state, 3D Display Systems that do not require any viewing aids.

"Pool Tray"
Name: Ms. Pamela J. Crachy
Hometown: Hammond, IN

The Invention Idea
This is a plastic or resin table that sits atop the rim of the upright swimming pool. The Tray includes a removable lid that would protect the swimmers personal items, such as a phone or perhaps a cold beverage. This tray is for swimming pool owners who have no decking around their pool.

Deckard Engine
Name: Dr. Carl R. Deckard
Hometown: Austin, TX

The Invention Idea
The Deckard Engine is a hybrid rotary/reciprocating four stroke internal combustion engine with only one major moving part. The piston is stationary and the cylinder moves. The rotation accomplishes the valving and reciprocation accomplishes the change in volume. It can replace two stroke engines in handheld applications, especially reciprocating and hammering applications.

Dancing Banners ™ Choreographed Fabric
Name: Mr. David M. Durlach
Hometown: Somerville,MA

The Invention Idea

The Dancing Banners technology transforms fabric into a fluid, vibrant medium. Using computer-controlled servo motors, magnetic particle brakes, a specially-designed "backbone" lattice, and rich choreography environment, the fabric elements become flowing swirls of hue and pattern, moving with lifelike grace in silent dances or set to music.

Direct Drive Rotary Combustion Engine (DDRCE)
Name: Mr. Magdi M. Elsherbini
Hometown: Los Angeles, CA

The Invention Idea
The (DDRCE) is a turbine like internal-combustion engine whose cycle is similar to that of a piston engine, but which produces rotary motion directly without any conversion from reciprocating motion. It has one rotating assembly harmonically rotating inside egg-shape housing. The rotor has notches on its surface each notch represents a combustion chamber.

Underground structure for residential and business use
Name: Mr. James P. Evans
Hometown: Waterloo, IA

The Invention Idea
A structural innovation that allows cheap, easy, fast and safe underground construction, which enables the practical construction of earth sheltered homes. An earth sheltered home is a house that has 1 1/2 feet of soil on the roof, making for a very energy efficient and tornado safe home.

Micronicfilter
Name: Mr. Michael L. Farnelli
Hometown: Carrollton, TX

The Invention Idea
The Micronics Filtering System is designed to remove ferrous particles in gasoline and diesel engines, which the oil filters miss. The results of millions of test miles, has resulted in passing emission test, year after year.

Infinite savings-Digital Coupon
Name: Mr. Darrell T. Fertakos
Hometown: Kinnelon, NJ
Invention Idea
This invention has a receiver so stores can send text messages advertisements, deals etc. and will include a provision for receiving UPC codes so when you bring digital coupon to store they can scan your digital coupon and you save.

Hollow Turbine
Name: Mr. William S. Fielder
Hometown: Ojai, CA

Invention Idea
Lacking a physical axis of rotation, this turbine design effectively captures the kinetic energy available off our coastlines and inland waterways, while protecting marine life. Rotational energy is transferred from the outer surface of the turbine's cylinder by gears, pulleys or magnets. This design produces turbine blades with a greater surface area, thus improving efficiency.

Contained Beverage Cooling Apparatus
Name: Mr. Matthew R. Foye
Hometown: Plympton, MA

The Invention Idea
This invention replaces a car's standard cup holder with a holder that heats or cools the beverages placed inside. It fits in the dashboard or center console of car and has a push button for cooling or warming. The cup holder uses convection to temper the air, creating rapid results and maintaining desired beverage temperatures indefinitely.

Smart Lancet
Name: Dr. Dominique M. Freeman
Hometown: La Honda, CA

Invention Idea
A miniaturized electronic motor with feedback control for position and velocity that allows accurate penetration depth and slow retraction of the lancet from the skin to give a painless capillary blood sample. The device compensates for the variation in skin thickness and can be combined with a glucose sensor for diabetes testing.

Bi-functional roof drain
Name: Mr. Craig Froeter
Hometown: Sterling, IL

Invention Idea
Commercial roof drain with a primary and overflow drain in one integral body. Provides primary and overflow drainage in one roof membrane penetration. Simplifies installation in design and labor over a two drain installation and saves the project money.

Plunge-N-Toss Disposable Plunger
Name: Ms. Chris F. Gabriel
Hometown: Bay City, MI

Invention Idea
Disposable Plunger has a reusable handle protected by a poly sleeve. After plunging drain, press release button in handle which forces cup & poly sleeve to drop off. Reusable handle easily clicks into new refill.

Communicating Hazardous Condition Detector
Name: Mr. Paul K. Godwin
Hometown: Brighton, MI

Invention Idea
An RF communicating smoke detector system without a central controller. Each detector has both a transmitter to transmit RF alarm signals to all other detectors and a receiver to receive RF alarm signals from any other detector. Each detector provides a localized audio alarm that lets the listener know if the alarm is based on a local condition or from a remote detector.

Suck Bucket™
Name: Mr. Robert R. Gray
Hometown: Houston, TX

Invention Idea
The Suck Bucket extracts (or sucks) the air trapped between the inside of the trash container and a fresh bag being installed. The Suck Bucket is really an assembly of two containers, one inside the other, with a one-way valve at the bottom of the inside container. The whole wastebasket amounts to a pump, with action to suck out irritating bag air puffs.

Grey CorEvac ™ Endotracheal Tube
Name: Mr. Christopher D. Grey
Hometown: Davie, FL

Invention Idea
My invention is an end tracheal tube (ETT) i.e. breathing tube for patients on mechanical ventilators that prevent a deadly lung infection called ventilator-associated pneumonia (VAP), currently a $2 billion dollar healthcare problem. Prevents the aspiration of subglottic secretions past balloon cuff regardless of patient position, exceptional versatility of design provides a platform adaptable to patient acuity and need.

Blind shine
Name: Mr. Richard D. Hall
Hometown: Doraville, GA

Invention Idea
This unique bracket for blinds is part of a complete vertical blind-cleaning system that allows you to detach, clean and reattach the blinds easily without the typical style='mso-bidi-font-weight: flimsy doors or slide caps.

Automotive Blind Spot Safety System and Method
Name: Mr. Arthur A. Hannah

Hometown: Plano , TX

Invention Idea
A Blind spot mirror system for automotive use that is speed-activated. The blind spot mirror is attached via a slide into a side view mirror housing on a track as opposed to the typical convex mirrors that attach to the side view mirror with sticky adhesives. Typical mirrors of this type may become weathered, are too small or large and can cause distraction of the blind spot view.

Pix It Up
Name: Mr. Jeffrey A. Harrison
Hometown: San Diego , CA

Invention Idea
A patented tool and specific biodegradable bag to provide hands free scooping of dog waste. It can pick up multiple droppings, is lightweight and portable, adjustable from 28" to 42" and can be used to pick up the yard or take with you on a walk.

Chromo code
Name: Mr. Shelton E. Harrison
Hometown: Culver City , CA

Invention Idea
The chromo code is a multicolor barcode symbology that encodes several hundred times more information than the "high-density" barcodes of today. The chromo code includes a self-calibration feature on each barcode image so that the receiving party's scanning system can know what the code itself "thinks" is blue, red, etc.

1*2 Flush Genuine Toilet Water Saver
Name: Mr. Edward H. Heath
Hometown: North Franklin , CT

Invention Idea
A replacement toilet handle and lift arm assembly that allows the user to choose between a partial one gallon flush for a liquid waste flush, (with some paper if need be) and a full flush for a solid waste flush. Push the handle DOWN for a couple of seconds for a partial flush and for a full flush, push IN, then DOWN.

Jellifish plectrum effect
Name: Mr. Robb Hendrickson
Hometown: Oak Brook , IL

The Invention Idea
The Jellifish is a plectrum, or guitar pick, that leverages three (3) biomechanical flat-picking techniques used by the guitarist to create new timbres from the instrument. As such, the Jellifish is a mechanical effect for the guitar, akin to the slide and capo. The Jellifish changes the timbre of the instrument by means of ridged articulations.

Dog behavior monitoring and training apparatus
Name: Mr. Robert L. Hollis
Hometown: Headland, AL

Invention Idea This apparatus monitors a dog's body movement, barking and GPS coordinates. This data is gathered and sent to a microprocessor where algorithms determine when a dog is digging, jumping up, barking, barking at night, and moving relative to a defined containment area. When undesirable behavior is detected, an audible warning is produced (using the owners voice), followed by a static charge.

Cell-Mate
Name: Mr. Frank Hrabal
Hometown: Lakewood , NJ

The Invention Idea
An adaptor which is added to a multi-cell flashlight. It would enable the flashlight to be charged as well charge or power other electrical devices in the 3.6 to 6 volt range. The charging unit for the flashlight is similar to an auto cell-phone charger which would eliminate the need for an additional charger unit.

Whisper cut shearing lawn mower
Name: Mr. Jonathan A. Jackson

Hometown: Dayton , OH

The Invention Idea
This invention is a proprietary method that permits a mower to have the advantages of quiet battery operation without reducing cutting performance. The mower is low maintenance stores compactly and allows for self-trimming with improved safety. An on-board computer detects rocks and sticks and safely rejects them.

Electronic Eyelid (EE)
Name: Mr. John R. Kahrhoff
Hometown: O'Fallon, MO
Co-Inventor: Mark A. Kahrhoff

The Invention Idea
The EE is an appliance that elevates and lowers the eyelids. It consists of a wearable skullcap, an eyelid lifting platform, a Micromole of movement and timing, servos and a mechanical connection between lifting platform and servos.

Rarefaction Wave Gun (RAVEN)
Name: Dr. Eric Kathe
Hometown: Watervliet , NY

The Invention Idea
This involves intentionally opening the breech of a gun when the bullet is one quarter of its way down the bore. This way: 1) propellant gases ejected rearward through an expansion nozzle will act as a rocket to reduce recoil momentum; 2) removing gasses from the gun before the bullet is even out will dramatically reduce barrel heating and erosion; and 3) the bullet won't slow down.

Ambient Flow Manipulation and Propulsion System
Name: Dr. John P. Keady
Hometown: San Jose , CA

The Invention Idea
This invention utilizes the ambient environment about a vehicle to provide a medium from which a charged portion is initiated. The charged portion is accelerated before recombination in an ExB direction to provide thrust, thus resulting in a propulsion device requiring no moving parts. This can be used to turn the surface area into a propulsion system without the need for a separate aircraft engine.

All-wheel Drive Gear Train Bicycle
Name: Young Kim
Hometown: Wayne , PA

The Invention Idea
The all-wheel drive bicycle with gear train has a completely different drive mechanism from a conventional bicycle. This bicycle uses no chain or cable in its drive mechanism and it uses all-wheel drive system with an enclosed gear train like a contemporary AWD automobile. The patented front wheel drive mechanism is incorporated and extended to a rear wheel drive gear system through the speed transmission mechanism.

Modular Load-Bearing Structural Column
Name: Mr. Dwight E. Kinzer
Hometown: Fargo , ND

The Invention Idea
The columns of this structure comprise a plurality of structural column panels that are arrayed horizontally about a vertical axis in a staggered relationship to one another. In addition to a storage silo or an array of such silos, other structures that can be built with this column include a building for human occupancy, a tower, ships, or support pillars for piers.

Model Aircraft Glider
Name: Mr. Stanley J. Kippen
Hometown: Ogden , UT

The Invention Idea
A glider craft capable of sustained flight in a glider mode in both atmospheric and underwater conditions. style='mso-no-proof:yes'>It glides up stream in a river or across a swimming pool under water.

Rotating Spindle Pump
Name: Dr. Andrew F. Knight
Hometown: Canon, GA

The Invention Idea
RSP is a fluid pump and consists of a cylindrical spindle containing a plethora of chambers, sandwiched between upper and lower plates each having two holes. As the spindle rotates through one rotation, each chamber is filled with liquid propellant in the filling region, and drained in the draining region to the rocket engine under the force of a gas pressurant.

Deceleration-activated Brake Light
Name: Mr. Mike Konczal
Hometown: Plano , TX

The Invention Idea
Eliminates the usual brake- lever to light switch connection by sensing deceleration. This may be particularly useful for remote applications not practical for wires such as a brake light mounted on a motorcycle helmet.

DELocKey TM
Name: Mr. Alvern J. Krinke
Hometown: Rogers , MN

The Invention Idea
This invention is a firearm self eject key. With the invented key installed, gun will fire. With the thumb safety "on safe," the key is locked in the gun and carried as a normal firearm. With thumb safety "off safe," key is held in by shooter's hand on grip. If grip is lost, key will eject. Without key, gun is disabled.

Guitar with Nonwarping Neck
Name: Mr. Rob Kunstadt
Hometown: New York , NY

The Invention Idea
Since the neck of an electric guitar does not warp due to the lack of string compression force, this new guitar has its neck suspended from the strings. The strings are always straight so they keep the neck straight as well.

Saliva imaging device and method for predicting ovulation
Name: Dr. Youti Kuo
Hometown: Penfield , NY

The Invention Idea
An image processing system using a vibrating head for collecting saliva sample and a miniature digital camera for capturing the image of dried saliva sample. An algorithm is used for computing percentage of line segments representing a crystalline pattern in a magnified saliva image. Results of daily saliva samples are displayed in trend curves for predicting the ovulation day.

AMBUSH -- Stationary Vehicular Surveillance
Name: Mr. Ben E. Lemire
Hometown: Salem , OR

The Invention Idea
A camera is hidden in an air freshener, fuzzy dice etc. The camera system is then armed and if someone breaks into the vehicle, a hidden recording device captures evidence. It can also be done wirelessly and is possible to use the internet, GPS system, or cellular broadcast to transmit vehicle location or video data. The main focus is to record data from break-ins or vandalism.

Electronic Component Functional Operational Status Indicator
Name: Mr. Henry A. Levy
Hometown: Brooklyn , NY

The Invention Idea
A colored electrochemical electronic component failure indicator built into an electronic component such as an Integrated Circuit. This invention clearly and

visibly indicates the functional operational status of the component on its surface. It is used for easily locating and identifying the exact used failed electronic component by changing color.

O2ACE Sys ('Oasis' Oxygen Assisted Controlled Environment System) wound care
Name: Dr. Edward D. Lin
Hometown: Osprey, FL

The Invention Idea
This wound care system comprises a clear sterile housing over a wound, with inflow-outflow and sensor ports, controlled by a programmable pump, and provides incomparable accelerated wound healing by infusing customized healing regimen which may include proteolysis enzymes for debridement, antibiotic lavages, pure oxygen, nitric oxide and other beneficial modulators, cyclical suction and prescient sensors.

Jiggers
Name: Mr. Wallace J. Littrell
Hometown: North Platte , NE

The Invention Idea
Jiggers are conveniently packaged, ready-to-make alcoholic mixed drinks. Not to be confused with pre-mixed alcoholic drinks, Jiggers simplify the purchase and mixing of signature alcohol drinks.

Smokeless Lamp and Smoke-eater
Name: Mr. Susumu Matsuyama
Hometown: Duluth , GA

The Invention Idea
The flame with this lamp/smoke-eater has a new enhanced efficient combustion to eliminate any soot core with an easy control of flame height. As a result, the lamp creates a uniform pink sharp-edge flame which can survive strong wind. It takes the ambient air and smoke to the inner flame to be burned out.

WinDynamo
Name: Mr. William McDavid, Jr.
Hometown: Tetonia , ID

The Invention Idea
A system for converting the energy in wind or free-flowing water to electricity safely, efficiently and inexpensively. It is acceptable anywhere, even in the heavily-populated areas where electricity is most-needed.

Stick Free Syringe
Name: Mr. James McDonald
Hometown: Monson , MA

The Invention Idea
This invention will provide health care workers with a safe way to draw blood while preventing needle sticks and blood contaminated with HIV, Hepatitis, or other blood infections. After blood is drawn, the outer sheath remains in place as the needle is withdrawn. A 1/4 turn rotation gives an audible click insuring that the needle is secured and cannot stick the worker.

Concealed outlets
Name: Mr. Glenn M. McGinnis
Hometown: Lutz, FL

The Invention Idea
A hinged electrical outlet and other fixtures, including switches, that mount to the bottom of cabinets, counters or desks, that pivot to a vertical position for easy use and then fold flat against the mounted surface. The intent is to eliminate ugly holes in kitchen backsplashes and other surfaces where electrical fixtures detract from the architecture and design.

SpritzWiz intermittent sprinkler
Name: Mr. Quentin M. McKenna
Hometown: Boulder , CO

The Invention Idea
This new irrigation technology saves both water and energy. It combines 3000 sq. ft. of sprinkler coverage with flow rates fully adjustable down to as low as one gallon per hour. No electricity or timers are needed. It simply runs off water pressure. Water is cyclically charged and released from a standard pop bottle using magnets. The sprinkler continues to run automatically as long as the water is turned on.

Multi-Level Roadway Structure
Name: Mr. Kevin McKeown

Hometown: New York , NY

The Invention Idea

Invention is a sectional roadway structure that when put together effectively multiplies an existing roadway vertically which provides for less traffic, less pollution and an easier flow of vehicle movement. The invention also allows for

rescue and escape routes in areas effected by flood waters, such as in Florida , New Orleans and California . The invention is easily cast, transported, assembled and moved, as needed.

Mor-Fin
Name: Mr. John Melius
Hometown: Waldorf , MD

The Invention Idea
Mor-Fins are swim fins that use the best fish propulsion system, tail fins. The swim fins use this great aquatic propulsion system by converting our movements used in walking. Thus our biomechanical strengths are transformed into the most efficient form of swimming for maximum ease, speed, comfort and power.

Door Answering Machine
Name: Mr. Don A. Merte
Hometown: Poughkeepsie , NY

The Invention Idea

Door Answering Machine lets you leave a personal or general outgoing message at your front door and allow you to receive a confidential message from any visitors. The only person that can retrieve the message is the owner of the unit.

Glowlees
Name: Mr. Dan Mikesell
Hometown: Brooklyn , NY
Co-Inventor: Caroline Bridges Eastman

The Invention Idea
Glowlees are a lighting acessory/toy that allows you to build a custom light from silicone rubber blocks that illuminate as they are stacked. Each block can light up a different color depending on the way it is stacked.

PoroStone SLB Media
Name: Mr. Jim Mosbaugh
Hometown: Tampa , FL

The Invention Idea
A fused agglomeration of glass nano and micro spheres with: extremely high surface areas (80-500 square meters per gram); low density; high melting point; reasonable strength. Material has functionality of surface chemistry that enables selective filtration, dosing, and remediation.

E-Z Drops
Name: Mr. Lenard L. Muroff

Hometown: Port Saint, FL

The Invention Idea
E-Z Drops is a do-it-yourself eye drop aid that uses a reflective surface and bulls-eye which lets you accurately aim and apply eye drops easily and safely

Naimishbridge
Name: Mr. Richard J. Naimish
Hometown: Detroit , MI

The Invention Idea
A fully adjustable bridge for electric bass guitar. By eliminating the set screws as string height adjusters the bridge has a more rigid design. This new design works on a simple lever principle.

Vehicle Intersection Collision Avoidance System
Name: Mr. Ryan A. Neff
Hometown: Lincoln Park , NJ

The Invention Idea
A receiver in a car receives wireless signals from traffic lights and road hazards. These are displayed and sounded audibly to supplement the driver's perception. Such a system would greatly help color-blind people to drive safely.

No Guess, No Mess Drain Cleaning System
Name: Mr. Jon A. Nimens
Hometown: Crookston , MN

The Invention Idea
This device is used to clean clogged drains and provides a way for the plumber to know if the clog has been cleared. It prolongs the life of the sewer cable, is environmentally friendly, no chemicals are involved in the removal of a clog and the cable is clean and dry on return.

Electic Cord Strain Relief Lanyard
Name: Mr. Erik A. Olson
Hometown: Concord , NC

The Invention Idea

Electric Cord Strain Relief Lanyard is a 6-inch long tether device used to keep electrical cords from unplugging from common household (Edison-type) outlets.

Consisting of a proprietary quick-release buckle, non-stretch nylon cord and universal set-screw, the Electric Cord Strain Relief Lanyard weighs less than two ounces.

Collagen Containing Tissue Adhesive
Name: Dr. George D. Petito
Hometown: Bethlehem , PA

The Invention Idea
A compound that may be in powder, film, gel, paste, or solution that is administered to a cleaned wound site where it absorbs exudates provides a physical barrier to bacterial infestation, reduces pain and expedites wound healing.

Firearm with Personal Safety Interlock Mechanism (FPSI)
Name: Mr. Joseph R. Petrella
Hometown: Newtown , PA

The Invention Idea

FPSI is a firearm system with a personal safety interlock mechanism which permits only selective personnel to fire a specific firearm. The interlock device is located in the handle area of the firearm and in a glove worn by the shooter. In incidents where a suspect gains control of an officer firearm in a struggle, the weapon is rendered inoperable by the mechanism.

A Device for Monitoring the Spinal Cord in Injury and Disease
Name: Dr. Milan Radojicic
Hometown: Chino Hills , CA

The Invention Idea
This invention is a real-time monitor of the spinal cord microenvironment in injury and disease. It utilizes a lumbar catheter that contains a pressure sensor at the tip and also allows for sampling and exchange of spinal fluid. This invention allows for more precise therapeutic interventions.

Personal telecommunication eyewear.
Name: Mr. Thomas M. Rickards
Hometown: Miami Beach , FL

The Invention Idea
Personal telecommunication eyewear providing two-way audio and optical communication through a radio link. The product will serve both industrial and safety markets (government & military personnel, airport security, police, industrial workers, etc.), and the recreational eyewear markets by delivering voice communication, and streaming high-fidelity stereo audio.

Child Guard CS-100
Name: Mr. J. Terry Riebling
Hometown: Pittsburgh , PA

The Invention Idea
Child Guard™ integrates a patent pending Trigger Safety Post design that locks the unit to the trigger guard of the firearm - making it impossible for the trigger to be accessed - or for the weapon to be fired.

Aerosol Product Dispensing System
Name: Mr. William C Roden
Hometown: Port Angeles , WA

The Invention Idea
This invention is a multi-element system for aerosol cans comprising both short and long extension tubes, buttons and retainers for the tubes that permit selective targeted delivery with reduction in waste and overspray. It will provide directional control, easy application of the extension tube to the short tube, and convenient storage of the long tube after use.

Single copy technology
Name: Drs. Peter and Joan Rogan
Hometown: Overland Park , KS

The Invention Idea
This invention consists of DNA probes for diagnosis of genetic diseases and cancer that can much more precisely target chromosomal intervals with much higher precision than existing products. These probes can differentiate the causes of genomic disorder in patients who have identical overall diagnoses but clinically differ in subtle ways.

Interlocking Construction Systems
Name: Mr. James D. Roman
Hometown: Myrtle Point , OR

The Invention Idea
Interlocking Construction Systems
The Interlocking Construction System builds affordable superior strength structures and allows for quick on-site construction by unskilled laborers using only a few hand tools.

Auxiliary handle for a shovel; Two-handled shovel
Name: Mr. Howard Rosenshine
Hometown: Downingtown , PA

Invention Idea
A two handled shovel, with an auxiliary handle angularly attached to the main shaft. The auxiliary handle is torsion ally spring biased away from the main shaft. An optional passive locking mechanism locks the handles in place relative to each other via longitudinal pressure along the shaft of the auxiliary handle during the process of shoveling.

MPD
Name: Dr. Anthony C. Ross
Hometown: Johns Island , SC

The Invention Idea
This is a squid-like propulsion device. Motors have long ago exceeded the abilities of propellers. This device can exceed the abilities of the motors. This device has the ability to be applied as a heart that replicates the function of the kidneys or can be scaled down to facilitate lymph function.

Neuro-Autonomic Testing System
Name: Dr. David B. Ross
Hometown: Plantation , FL

The Invention Idea
This device that uses biofeedback to detect if patient is faking physical pain or actually has real pain. The device (NATS) will also pinpoint the exact point of origin of pain in the human body, preventing incorrect therapies or surgeries.

Solo
Name: Ms. Ezra Shively
Hometown: Columbus , OH

The Invention Idea
Solo is a wearable diabetes blood glucose monitor for children ages 6-13. It supports the medical and social needs of young people with diabetes and simplifies the blood testing process by combining the lancer and blood meter in one device. Solo also directly sends blood glucose and kinetic information to parents via email, text-message or fax using cellular technology.

PrognostiCheck
Name: Mr. Michael Singer
Hometown: Harrisville , MI

The Invention Idea
PrognostiCheck is a noninvasive assessment of prognosis; specifically the timing of non-acute death to support end-of-life healthcare decisions. Based upon an established diagnostic technique; impedance plethysmography, the plasma cell membrane is electrically illustrated through phase angle and followed over time to support treatment decisions.

Temporary Unbonded to Permanently Bonded Post Tensioning
Name: Mr. Mathew Stuart
Hometown: Plainsboro , NJ

Invention Idea
This invention provides temporary sheathing for post- tensioning mono strands. Once the cables are tensioned and anchored, and the concrete has reached adequate strength, a low voltage charge is passed through the cable which converts the sheathing to a permanent adhesive between the concrete & strand.

A New Type of Linear D.C. Motor with a Two Part Field
Name: Mr. Philip A. Studer
Hometown: Silver Spring , MD

The Invention Idea
This is a divided field motor that can develop thrust and motion between the armature currents and salient poles of indefinite extent. Magnetic flux passing through this gap can be controlled for suspension. Sets of poles, joined by a steel rail are magnetized near the armature. Commutated currents produce thrust, and the orientation of the gap flux suspends the vehicle independent of speed.

Chain-Serts
Name: Mr. Dave Szymanski
Hometown: St. Mary's, PA

The Invention Idea
Chain-Serts is a system whereby a replaceable cutting insert or tooth is attached to a saw chain without permanently bonding the cutter to the chain and without the use of fasteners. No specialized tool is needed to remove or replace the cutting insert on to its holder and the chain can remain in place. The Chain-Sert system is created from powdered metallurgical materials.

Expandable Trocar
Name: Dr. Leonides Teves
Hometown: Bradenton , FL

The Invention Idea
This is a newly designed expandable surgical tool. Today's trocars are not expandable. My surgical tool expands from an initial incision of one inch expanding through 8mm, 12mm, 20mm and up to a 30mm opening. It opens like an umbrella.

Lever Drive Wheelchairs
Name: Mr. Steven Tidcomb
Hometown: Beverly , MA

Invention Idea
This wheelchair uses a single or twin-lever and cable system. Each cable is wound helically around a hub at the wheel. Bicycle brake levers are used for tensioning the cable around the hubs. Squeezing the brake lever engages the cable to the hub for rotation or braking. A single lever system includes a tilting grip coupled via cable to the stem of one front caster for steering control.

Shape Memory Polymer Fixation Device
Name: Mr. Jeff A. Tyber
Hometown: Atlanta , GA
Co-inventors: Dr. Ken Gall, Dr. Reed Bartz, and Mr. Chris Yackacki

The Invention Idea
Shape memory polymers (SMP) have the capacity to be deformed into a temporary shape, hold a transient shape for set period of time, and recover their original shape upon exposure to an environmental stimulus such temperature. This concept is for the development of shape memory polymer ACL reconstruction fixation device.

One-Way Clutching Between a Ligature and a Frame
Name: Dr. Jon Vazin
Hometown: Nashville , TN

The Invention Idea
As the name implies, one-Way Clutching allows free relative motion of a ligature with respect to the frame only in one direction.

CO2 Detecting Garage Door Opener
Name: Mr. Dale A. Ward
Hometown: Bulington , KY

The Invention Idea
This invention is the combination of two existing products -- one is an automatic garage door opener and the other is a CO2 Detector. When the CO2 detector detects an unsafe level of CO2, the alarm sounds and it opens the garage door, allowing the contained CO2 to escape.

CopterBox
Name: Mr. Charles M. Warren
Hometown: Pooler, GA

The Invention Idea
CopterBox is a lightweight, disposable air cargo delivery system. It can deliver up to 100 pounds of emergency supplies from a wide variety of aircraft with drop speeds of up to 130 knots. The corrugated paper box employs three rotor blades that use the principle of autorotative lift to slow it and its payload to a gradual descent prior to ground contact.

Everything on Demand
Name: Dr. Raymond Westwater
Hometown: Princeton , NJ

The Invention Idea
The concept is to dramatically reduce the bandwidth requirements of a digital video stream to create a Video on Demand library of literally every DVD ever recorded (there are about 50,000), a DVR recording of every TV program ever transmitted, and a live feed of virtually every channel from every country in the world.

Xflash ™
Name: Mr. Frank Weyer
Hometown: Los Angeles , CA

The Invention Idea
A computer software program that lets you learn while you are surfing the internet or playing a computer game. You choose a subject and the program for which you want XFlash to run. Then every 60 seconds or so a multiple choice flash card pops up that you have to answer correctly before you can continue playing or surfing. Hints are given to help you learn.

Advanced Aerodynamic Heavy Truck Trailer System
Name: Mr. Richard Wood
Hometown: Virginia Beach , VA

The Invention Idea
An advanced heavy truck trailer system consisting of a typical van trailer with the "vortex trap" on the trailer front, "vortex strakes" on the aft portion of the trailer top and sides, "wake board" on the trailer base, and an "undercarriage device" mud

flap system. These inventions transform the unsteady high drag flow on the trailer to create a low drag trailer which reduces fuel consumption fifteen percent.

Safety Key
Name: Mr. Fred Zimmerman
Hometown: Desoto , KS

The Invention Idea
This invention is a keyless entry system for any sliding glass window or door that is contained within a frame like a patio door in your house or a sliding glass window on your truck. The Safety Key enables you to enter by just punching in a code.

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